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Mapping home-network appliances to TCP/IP sockets using a three-tiered home gateway architecture

Corcoran, P.M.
Dept. of Electron. Eng., Univ. Coll. Galway;

Abstract:
A three-tier gateway architecture for internetworking between home automat
networks and a TCP/IP based wide area network, such as the Internet, is
described. The architecture abstracts the functionality of any home network i
driver layer (tier one), and provides a common access layer (tier two) from a
TCP/IP network application (tier three) to a local home automation network.
Clients and application programs may transparently access services and reso
on the home network and appliances connected to the home network may ac
resources and services on the TCP/IP network

Index Terms:
Internet   home automation   internetworking   network interfaces   subscriber loops   trar
protocols   Internet   TCP/IP based wide area network   TCP/IP sockets   application proc
clients   common access layer   driver layer   home automation networks   home-network
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